

B1 encl a ferroelectric thin film epitaxially grown on said perovskite oxide thin film.

5. (Amended) The multilayer thin film of claim 1, wherein said ferroelectric thin

B2 film comprises PZT.

7. (Amended) A process for preparing the multilayer thin film of claim 1,  
comprising:

B3 forming a buffer layer including an oxide thin film of zirconium or of a rare earth  
element on an Si (100) substrate,

epitaxially growing a perovskite oxide thin film having a (100) or (001) orientation on  
said buffer layer, and

epitaxially growing a ferroelectric thin film on said perovskite oxide thin film.

✓  
[Please add the following Claims 8 and 9:]

8. (New) The multilayer thin film of claim 1, wherein said buffer layer comprises

B4  $\text{ZrO}_2$ .

9. (New) The multilayer thin film of claim 1, wherein said buffer layer comprises

$\text{Y}_2\text{O}_3$ .

#### BASIS FOR THE AMENDMENT

The claims have been limited to the buffer layer including an oxide thin film of zirconium or a rare earth element, consistent with the disclosure at page 9, lines 11-13 and in the Example at page 20 of the specification.

#### REMARKS

Favorable reconsideration of this application is requested.

Claims 1-9 are in the case.